REMARKS

A Sequence Listing accompanies the present Amendment. In particular, a diskette containing the Sequence Listing in computer-readable form, and a paper copy of the Sequence Listing are enclosed.

Under 37 C.F.R. 1.821(f), the Applicants' representative hereby states that the contents of the computer readable form and the paper copy of the Sequence Listing are the same. Under 37 C.F.R. §1.821(g), the Applicants' representative also states that the inclusion of this Sequence Listing does not include any new matter. Accordingly, it is respectfully requested that the Sequence Listing be entered into the application.

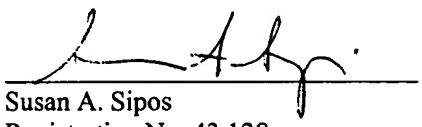
The specification has been amended to refer to the Sequence Listing containing SEQ ID NOs.: 1-6. No new matter has been added.

In compliance with the Notice, an abstract has been added to the application. A copy of the abstract is enclosed on a separate page for the Office's convenience.

A petition for an extension of time accompanies this Amendment. Applicants believe that no other fee is due. However, if a fee is due, please charge Deposit account No. 08-2461. A duplicate copy of this sheet is enclosed for that purpose.

If the Office has any questions relating to this Amendment or to this application in general, it is respectfully requested that the Applicants' undersigned representative be contacted at the telephone number provided below.

Respectfully submitted,



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VERSION OF SPECIFICATION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

On page 32, please replace the paragraph beginning on line 14 with the following:

In this example ~~we in essence repeated~~ the experiments described in example 2 were essentially repeated. Human Papillomavirus (HPV) type 16 primers HPVfor (~~5'-TCAAAAGCCACTGTGTCCTG-3'~~) (SEQ ID NO.: 1) and HPVrev (~~AACCACCCCCACTTCCAC-3'~~) (SEQ ID NO.: 2) yielded a fragment of 945 bp in a polymerase chain reaction (PCR). Four internal primers were designed: primer TU16for1 (~~5'-AGAGCTGCAAAAAGGAGATTATTTGAAAGCGA-3'~~) (SEQ ID NO.: 3), primer TU16for2 (~~5'-AGAGACAACTGATCTCTACTGTTATGAGCA-3'~~) (SEQ ID NO.: 4), primer TU16rev1 (~~5'-TCCTGTGCAGTAAACAACGCATGTGCTGTC-3'~~) (SEQ ID NO.: 5), and primer TU16rev2 (~~5'-CGTGTGTGCTTTGTACGCCACAACCGAAGCGTAGAGT-3'~~) (SEQ ID NO.: 6). These internal primers were pooled (0.125 μg/μl each). The primer mixture was labelled with 50 ng trans-ULS per μg primers according to the standard ULS labelling protocol. Next, the oligonucleotide mix was column purified in order to remove free trans-ULS. Total genomic HPV 16 DNA (40 ng final) was mixed with trans-ULS labelled internal primers (120-160 ng final) in a solution of 6x SSC. This solution was denatured and incubated at 60°C for 1 hour. This step was repeated two more times and was followed by a column purification. Subsequent, a PCR amplification was carried out as follows: a PCR master mix consisting of a PCR buffer, HPVfor and HPVrev primers (10μM

After Page 59, add the following on a separate page:

ABSTRACT

The invention relates to a method for distinguishing at least two target bio-organic molecules with dyes selected from a pool of at least two dyes, the method comprising: (a) providing a first set of at least two probes, wherein each probe recognizes a target bio-organic molecule in a first set of target bio-organic molecules, and wherein each probe is distinctly-labelled with primary labels that are distinct from one another due to the presence of dyes in distinct ratios; (b) providing a second set of probes distinctly-labelled with said primary labels described in step (a), wherein each probe in said second probe set recognizes a target bio-organic molecule in a second set of target bio-organic molecules; wherein each probe in said first or second probe set is further labelled with the same first binary label, wherein said first binary label is distinct from said primary labels; and (c) contacting said at least two target bio-organic molecules with said probe sets, wherein said target bio-organic molecules are distinguished.

ABSTRACT

The invention relates to a method for distinguishing at least two target bio-organic molecules with dyes selected from a pool of at least two dyes, the method comprising: (a) providing a first set of at least two probes, wherein each probe recognizes a target bio-organic molecule in a first set of target bio-organic molecules, and wherein each probe is distinctly-labelled with primary labels that are distinct from one another due to the presence of dyes in distinct ratios; (b) providing a second set of probes distinctly-labelled with said primary labels described in step (a), wherein each probe in said second probe set recognizes a target bio-organic molecule in a second set of target bio-organic molecules; wherein each probe in said first or second probe set is further labelled with the same first binary label, wherein said first binary label is distinct from said primary labels; and (c) contacting said at least two target bio-organic molecules with said probe sets, wherein said target bio-organic molecules are distinguished.